

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method of making an acetabular prosthesis comprising the steps of:

acquiring a first set of data defining in three dimensions at least a portion of a bone of a patient;

computing a second set of data based upon the first set of data; and

manufacturing said prosthesis to include an acetabular cup and an attachment part extending therefrom configured to attach the acetabular cup to bone surrounding the acetabulum of a patient,

wherein said manufacturing step includes the step of forming said attachment part based on the second set of data.

Claim 2 (original): The method of claim 1, wherein said second set of data defines in three dimensions said attachment part.

Claim 3 (original): The method of claim 1, wherein:

said attachment part comprises a flange extending from said acetabular cup, and

said flange has defined therein a number of throughholes configured to receive an anchoring element.

Claim 4 (original): The method of claim 1, wherein said manufacturing step further includes the steps of:

forming said attachment part to include a bone-facing surface and a tissue-facing surface, and

forming said tissue-facing surface to be a partial facsimile of a surface of said bone.

Claim 5 (original): The method of claim 4, wherein said manufacturing step further includes the step of forming said bone-facing surface to possess a shape complementary to a portion of the surface of said bone.

Claim 6 (original): The method of claim 1, wherein:

said attachment part possesses a cup interface end portion and a free end portion, and

said forming step includes forming said attachment part with a uniform thickness extending from said cup interface end portion to said free end portion.

Claim 7 (original): The method of claim 1, wherein said manufacturing step further includes the steps of:

forming said attachment part to include a bone-facing surface and a tissue-facing surface, and

forming said bone-facing surface to possess a shape complementary to a portion of a surface of said bone.

Claim 8 (original): The method of claim 1, further comprising the step of acquiring a third set of data defining in three dimensions other bone structure of the patient, at least some of said other bone structure contralaterally corresponding to said bone of the patient, wherein:

said manufacturing step includes the step of arranging an angular orientation of said acetabular cup relative to at least one of said attachment part and the bone of the patient based on said third set of data.

Claim 9 (currently amended): A method of making a prosthesis for a joint socket comprising the steps of:

acquiring a first set of data defining in three dimensions at least a portion of a bone of a patient;

computing a second set of data based upon the first set of data; and

manufacturing said prosthesis to include a functional part and an attachment part extending therefrom configured to attach the functional part to the bone surrounding the joint socket,

wherein said manufacturing step includes the step of forming said attachment part based on the second set of data.

Claim 10 (original): The method of claim 9, wherein said second set of data defines in three dimensions said attachment part.

Claim 11 (original): The method of claim 9, wherein:

said attachment part comprises a flange extending from said functional part, and

said flange has defined therein a number of throughholes configured to receive an anchoring element.

Claim 12 (original): The method of claim 9, wherein said manufacturing step further includes the steps of:

forming said attachment part to include a bone-facing surface and a tissue-facing surface, and

forming said tissue-facing surface to be a partial facsimile of a surface of said bone.

Claim 13 (original): The method of claim 12, wherein said manufacturing step further includes the step of forming said bone-facing surface to possess a shape complementary to a portion of the surface of said bone.

Claim 14 (original): The method of claim 13, wherein:

said attachment part possesses a cup interface end portion and a free end portion, and

said attachment part possesses a uniform thickness extending from said cup interface end portion to said free end portion.

Claim 15 (original): The method of claim 9, wherein said manufacturing step further includes the steps of:

forming said attachment part to include a bone-facing surface and a tissue-facing surface, and

forming said bone-facing surface to possess a shape complementary to a portion of a surface of said bone.

Claim 16 (original): The method of claim 9, further comprising the step of acquiring a third set of data defining in three dimensions other bone structure of the patient, at least some of said other bone structure contralaterally corresponding to said bone of the patient, wherein:

said manufacturing step includes the step of arranging an angular orientation of said functional part relative to at least one of said attachment part and the bone of the patient based on said third set of data.

Claim 17 (currently amended): The method of claim 9, wherein said manufacturing step includes manufacturing said ~~acetabular cup~~ functional part from pre-determined data.

Claim 18 (currently amended): A method of making an acetabular prosthesis comprising the steps of:

acquiring a first set of data defining in three dimensions at least a portion of a bone of a patient;

computing a second set of data based upon the first set of data;

manufacturing said prosthesis to include an acetabular cup and an attachment part extending therefrom configured to attach the acetabular cup to bone surrounding the acetabulum of a patient, wherein said manufacturing step includes the steps of:

forming said attachment part based on the second set of data,

forming said attachment part to include a bone-facing surface and a tissue-facing surface, and

forming said tissue-facing surface to be a partial facsimile of a surface of said bone.

Claim 19 (original): The method of claim 18, wherein said second set of data defines in three dimensions said attachment part.

Claim 20 (original): The method of claim 18, wherein:

said attachment part comprises a flange extending from said acetabular cup, and

said flange has defined therein a number of throughholes configured to receive an anchoring element.

Claim 21 (original): The method of claim 18, further comprising the step of acquiring a third set of data defining in three dimensions other bone structure of the patient, at least some of said other bone structure contralaterally corresponding to said bone of the patient, wherein:

said manufacturing step includes the step of arranging an angular orientation of said acetabular cup relative to at least one of said attachment part and the bone of the patient based on said third set of data.

Claim 22 (currently amended): An acetabular prosthesis, comprising:

an acetabular cup; and

a flange attached to said acetabular cup and configured to attach the acetabular cup to bone surrounding the acetabulum of a patient, said flange is prepared by a process including the steps of:

acquiring a first set of data defining in three dimensions at least a portion of a bone of a patient;

computing a second set of data based upon the first set of data; and

manufacturing said flange based upon the second set of data.

Claim 23 (original): The prosthesis of claim 22, wherein said second set of data defines in three dimensions said flange.

Claim 24 (original): The prosthesis of claim 22, wherein said flange has defined therein a number of throughholes configured to receive an anchoring element.

Claim 25 (original): The prosthesis of claim 22, wherein said manufacturing step further includes the steps of:

forming said flange to include a bone-facing surface and a tissue-facing surface, and

forming said tissue-facing surface to be a partial facsimile of a surface of said bone.

Claim 26 (original): The prosthesis of claim 25, wherein said manufacturing step further includes the step of forming said bone-facing surface to possess a shape complementary to a portion of the surface of said bone.

Claim 27 (original): The prosthesis of claim 22, wherein:

said flange possesses a cup interface end portion and a free end portion,
and

said flange possesses a uniform thickness extending from said cup interface end portion to said free end portion.

Claim 28 (original): The prosthesis of claim 22, wherein said manufacturing step further includes the steps of:

forming said flange to include a bone-facing surface and a tissue-facing surface, and

forming said bone-facing surface to possess a shape complementary to a portion of a surface of said bone.

Claim 29 (original): The prosthesis of claim 22, wherein the process further comprises the step of acquiring a third set of data defining in three dimensions other bone structure of the patient, at least some of said other bone structure contralaterally corresponding to said bone of the patient, and wherein said manufacturing step includes the step of arranging an angular orientation of said acetabular cup relative to at least one of said flange and the bone of the patient based on said third set of data.

Claim 30 (new): A method of making an acetabular prosthesis comprising the steps of:

acquiring a first set of data defining in three dimensions at least a portion of a bone of a patient;

computing a second set of data based upon the first set of data; and

manufacturing said prosthesis to include an integral component including an acetabular cup and an attachment part extending therefrom,

wherein said manufacturing step includes the step of forming said attachment part based on the second set of data.

Claim 31 (new): The method of claim 30 wherein the integral component of the manufactured prosthesis is monolithic.